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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/790,135	03/02/2004	Masashi Agata	60188-788	2994	
75	590 11/22/2004		EXAMINER		
Jack Q. Lever, Jr. McDERMOTT, WILL & EMERY 600 Thirteenth Street, N.W. Washington, DC 20005-3096			LE, VU ANH		
			ART UNIT	PAPER NUMBER	
			2824		
			DATE MAILED: 11/22/2004	DATE MAILED: 11/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/790,135	AGATA, MASASHI				
Office Action Summary	Examiner	Art Unit				
	Vu A. Le	2824				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.	Claim(s) 1-16 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>7-12,15 and 16</u> is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) 3-6,13 and 14 is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	·					
10)⊠ The drawing(s) filed on <u>02 March 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the d	•					
Replacement drawing sheet(s) including the correction						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ul>						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  1) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
Notice of Draitsperson's Patent Drawing Review (P10-946)  B) ☐ Information Disclosure Statement(s) (PT0-1449 or PT0/SB/08)  Paper No(s)/Mail Date 03/02/04.	5) Notice of Informal Pa					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Imai et al (5,297,077).
- 3. Imai et al (Fig.5) disclose a memory device comprising a memory cell that includes a first capacitor (512) for storing therein electric charge corresponding to stored data, a first transistor (511) whose gate is connected to a word line, a dummy cell (54) that includes a second capacitor (541) having smaller capacitance than the first capacitor (col.19, lines 62-67 and second equation in col.20), a second transistor (542) whose gate is connected to a dummy word line (DWL51), a third transistor (543) for electrically connecting the second capacitor with a voltage line (Vd1, Vd2) in accordance with a precharge signal (PC51, PC52), a precharge circuit (55) for precharging the first and second bit lines to a second voltage (Vcc), a sense amplifier (56) for detecting a potential difference, wherein the capacitance of the second capacitor is substantially half of the capacitance of the first capacitor (col.19, lines 62-67 and second equation in col.20).

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### Allowable Subject Matter

4. Claims 7-12 and 15-16 are allowed.

5. Claims 3-6 and 13-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

7. Kato et al (6,567,298) disclose a semiconductor memory device having a dummy word line circuit.

8. Jae Kap (6,297,986) discloses a ferroelectric memory device having a dummy word line circuit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu A. Le whose telephone number is (571) 272-1871. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vu A. Le

Primary Examiner Art Unit 2824

11/18/04